900C

Vehicle GPS Tracker User Manual

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1. Working Directions

Thank you for your purchase of 900C Vehicle GPS Tracker. In order to realize the full functions of this product, please read this manual carefully before starting to use the product.

1.	This product can only be maintained and repaired by qualified professional service personnel. If you detach this product for maintenance or repair, your warranty will be invalidated.
2.	When connecting the other devices, read carefully their instruction manuals, so as to carry out correct installation; do not connect incompatible device.
3.	Please use genuine original parts and qualified batteries and peripheral equipments, so as to avoid damage to this product.
4.	As this product is a high-tech product, please read carefully this manual before starting to use the product, so as to avoid inappropriate operation.
5.	Drivers should not operate this product while driving a vehicle, thereby, affecting safe driving.
6.	This product can work properly only when GSM communication is in good condition.
7.	Please reduce electromagnetic wave interference to the product; and use it properly.
8.	GPS communication is liable to be affected by environmental shielding; may fail to carry out positioning during certain circumstances. It will resume the positioning function as soon as it leaves the shielding environment. This is normal. Please do not worry when encountering such problem.
9.	Each signal sent out from the system will be confirmed for successful transmission in the base station of the mobile operator. However, if system stoppage occurs or if the mobile telephone is preset to a switch off state by the customer, it cannot ensure successful transmission.
10.	For safety reason, do not tell the other people your 900C mobile number, without taking precautions. Otherwise, your privacy may be compromised along with other safety problem.

2. Wiring Installation

2.1. Product Parts List

GPS Tracker Unit	
GPS Antenna	
GSM Antenna	
Car Charger Lighter Socket	

2.2. Precaution before Installation

1	Check if all the parts are included.
2	Prepare a SIM card for GSM communication. Use some other mobile phone to confirm that the PIN code has not been set and that it can dial out and receive telephone calls and SMS

	without problem.
3	Before install the SIM card; make sure to cut off power from the GPS Tracker unit. The correct installation method is to push the tray completely into the GPS Tracker unit, until you feel it is hooked by something.
4	Find a suitable place inside the car for installing the unit.
5	Check if all the wiring has been connected correctly; then connect the GPS Tracker unit to the power source.

2.3. INSTALLATION

2.3.1 Step 1: Install SIM Card

1	Using a speculate object to poke the small button of the SIM card seat, and then it will pop-up a small drawer.
2	Put the SIM card in the drawer, and put back the drawer, as direction shown in the picture.
3	Make sure to turn off the power before install the SIM card.
4	Make sure to deactivate the PIN code, so that the SIM card can operate without PIN protection.
5	Before install the SIM card to the GPS Tracker, please use a mobile phone to make sure the SIM card can make & receive phone calls without problem.
6	Before install the SIM card to the GPS Tracker, please use a mobile phone to empty the SMS storage of the SIM card.

2.3.2 Step 2: Connect GSM Antenna

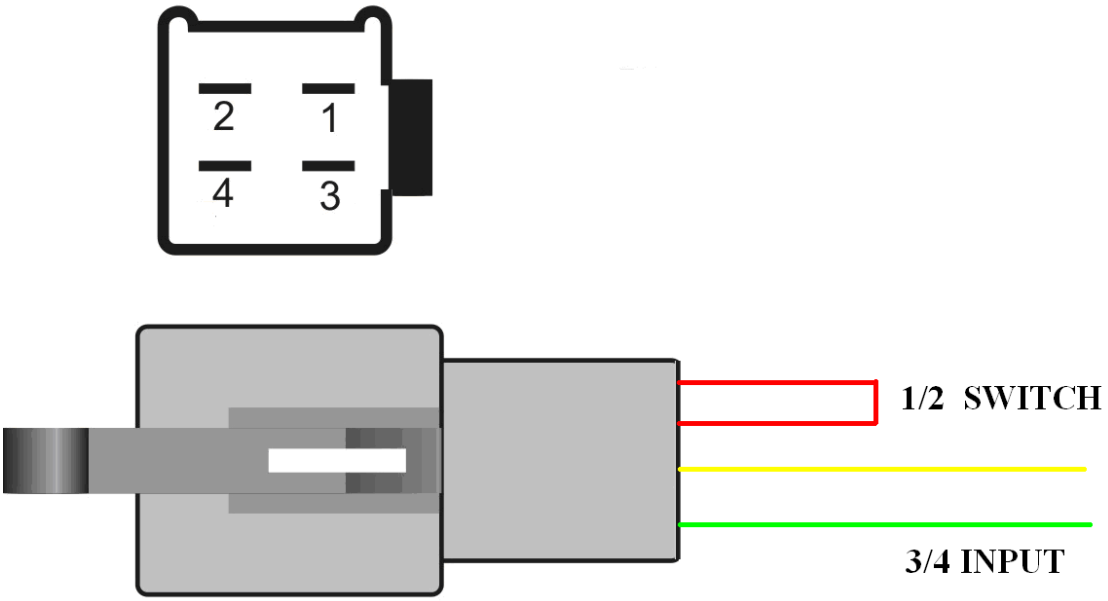
1	Connect the GSM Antenna to the unit.
2	Fasten the connection by turning the screw in the bottom.
3	Please do not swing round the antenna itself.

2.3.3 Step 3: Connect GPS Antenna

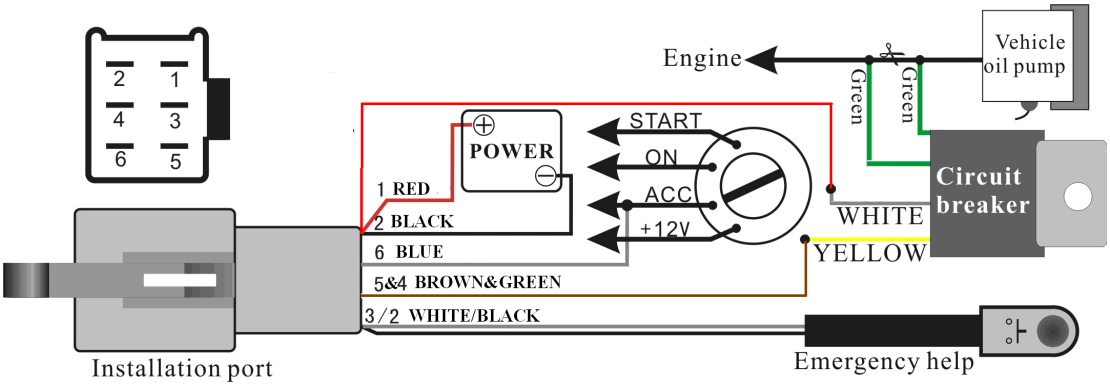
1	GPS antenna is used to receive satellite signals in the sky. It should be positioned at a place where it will have an unobstructed view of the sky. The ideal location is top of the dashboard or close to the rear window of the car.
2	GPS antenna can pick up signals through glass and plastic, but will not "see the sky" through metal or other conductive surfaces. To avoid distractions of GPS signal, make sure

	the antenna is not covered or shielded by any object containing metal, such as the metallic windshield.
3	If your car is with metallic windshield please cut a hole on the windshield above the place where you put the GPS antenna, so that the antenna can receive the GPS signals.

2.3.4 Step 4: Connect power charging



4 pins connector		
Pin	**Color**	**function**
1	Red	power switch
2	Red	power switch
3	Yellow	Connect to door sensor
4	Green	Undefined input. for example you can use it to detect the signal of car alarm



6 pins connector		
Pin	**Color**	**function**
1	Red	DC in Input voltage: 8-40V Suggestion: 12V
2	Black	GND
3	Brown	Output , starter kill relay you can use it to cut the electricity or oil of the car
4	White	SOS button
5	Green	Output , starter kill relay you can use it to cut the electricity or oil of the car
6	Blue	ACC signal detecting

According to the relay parameter to make sure to following requirement:
The input voltage of relay must be suited to the car battery

3. Operating Instructions

SMS protocol of 900C, the default password of 900C is 000000

	SMS Instruction	**Format**	**Remark**
1	Request one position	A******,000	000: command code ******: password, default 000000
2	Modify user password	A******,001,######	001: command code ******: old password , default 000000 ######: new password
3	Set a preset phone number for SOS button or monitoring number.	A******,002,1, Tel Number	002: command code ******: password, default 000000 1 : Set SOS number

			Tel Number: Preset Tel. number (Tel Number must <20 digits)
	When this button is pressed, 900C will send the SOS and position message to the preset number.	A******,002,2, Tel Number	002: command code ******: password, default 000000 2 : Set monitoring number Tel Number: Preset Tel. number (Tel Number must <20 digits)
4	Set the time interval of position refresh to SOS number,this command is effective just in SMS work mode.	A******,003,XXX	003: command code ******: password, default 000000 XXX: (3 digital) XXX =000,stop XXX = 001 – 999 time internal (unit: min)
5	Set low power alarm When the voltage is lower than the preset value, tracker will send one lower power alarm SMS to the control number. **Otherwise,there is not this function in vehicle tracker**	A******,004,X	004: command code ******: password, default 000000 X : voltage preset value X=0, close (default) X =1, <3.5V send SMS alarm X =2, <3.6V send SMS alarm X =3, <3.7V send SMS alarm X =4, <3.8V send SMS alarm X =5, <3.9V send SMS alarm
6	Set over speed alarm When the 900C speed higher than the preset value, 900C will send one over speed alarm SMS to the control number.	A******,005,XX	005: command code ******: password, default 000000 XX : the speed preset value XX = 00 , close 01 ≤ XX ≤ 99 (unit: XX Km/h)
7	GPRS Status, To check GPRS Status	A******,502	502: command code ******: password, default 000000
8	Get IMEI	A******,505	505: command code ******: password, default 000000
9	Set GPRS internal of position refresh	A******,506,00030	506: command code ******: password, default 000000 00030: Such as 30 seconds interval is 00030

10	Check GPRS interval of position refresh	A******,507	507: command code ******: password, default 000000
11	Inquire GPRS parameter Return Including IP, Port, APN	A******,006	006: command code ******: password, default 000000
12	Control the output	A******,007,P,F	007: command code ******: password, default 000000 P: the position of the output P =1 output 1 P =2 output 2 F: the control signal F =1 give the relay the current to drive it (cut off the car power). F =0 cut off the current of the relay (comeback the normal).
13	Time zone setting	A******,008,+08	008: command code ******: password, default 000000 +08: Set the local time zone, the default value is +08
14	Inquire the system parameter. Including the software version, password, interval, speed limit, area limit, I/O state, GPS state, SOS number, control number, etc	A******,009	009: command code ******: password, default 000000
15	GPRS switch	A******,010,X	010: command code ******: password, default 000000 X: GPRS function =0 GPRS OFF =1 TCP ON and updata in time interval strictly =2 TCP ON and updata in factory mode. =3 TCP ON and updata in save mode.

16	SET APN	A******,011,APN, username,password	011: command code ******: password, default 000000 APN: GPRS use this gateway to connect internet. Username: APN Username Password: APN Password The default APN is CMNET
17	Set the center IP and Port Set server parameter	A******,012,IP:Port	012: command code ******: password, default 000000 IP: Platform server ip Port: Platform server port
18	LED Light Switch	A******,666, X	666: command code ******: password, default 000000 X: LED Light Switch X =0 LED Light OFF X =1 LED Light ON
19	Reset to factory settings	A******,888	888: command code ******: password, default 000000
20	Restart Tracker	A******,999	999: command code ******: password, default 000000

4. SMS Tracking by Mobile

4.1. Position Report Function

4.1.1. Get position from vehicle - way 1:

No matter where you are, when you want to know the position of your vehicle

Step1	Send a SMS message or make a telephone call to the 900C.
Step2	vehicle will report its location back to you by SMS, which including the position information

Edit a message as following format, and then send it to 900C:

	Command	Remark
Send Format:	A+Password+,+000	Get position command code is: 000
For Example Send message:	A000000,000	000: command code 000000: password, default 000000
Back information:	Lat:2232.6022N, Lon:11402.2969E	This mean your position is on North Latitude 22 degree 32.2232 cent and East Longitude 114 degree 2.2969 cent

4.1.2. Get position from vehicle - way 2:

Apply for one position service by another way: you need pre-storage the phone number in SIM card:

Step1	Make a cell phone call to 900C
Step2	After listening the ring of 900C, it will hold off after two rings.
Step3	Then, after 10 second, the cell phone will receive the Position SMS. (Its means is 900C will send Position Data every 5 minute.)

4.2. Tracking Function

Tracking report function can be turned on or off according to the requirements of the user. Tracking function will continually report vehicle position until it get stop command .In this tracking mode, 900C will send one position message at a preset time interval.

Step1. Edit a message as following format, then send it to 900C		
	Command	**Remark**
Send Format:	A+Password+,+003,+XXX	Note: XXX , if XXX=000 it is STOP tracking Unit: preset minute interval Command code : 003
For example:	A000000,003,003	003: command code 000000: password, default 000000 003: 3 minute interval It means is 900C will send

		Position Data every 3 minute.

Step2. 900C will send back one SMS-----Set Time OK.
This SMS means that 900C is in tracking mode now and preset time interval is 3 minutes.

Step3. 900C will send back position SMS at preset time interval.
In this example, the SMS will send back at preset time interval: 3 minute

4.3. Stop tracking function.

This function is used to turn off tracking report function. Edit a message as following format, and then send it to 900C:

	Command	**Remark**
Command format:	A+passwaord+,+003+,+000	
For example:	A000000,003,000	003: command code 000000: password, default 000: 0 minute interval, mean stop back

5. GPRS Tracking by Computer

The default mode is GPRS when powering on the unit. The default setting is ours; you need to send the following SMS to Set APN and IP, Port. (If you use our server, you only need to set APN).

5.1.Set APN

Send the SMS to the tracker as following format

	Command	**Remark**
Command format:	A+Password+,+011,+APN	
For example:	A000000,011,CMNET	011 : Command code 000000: password, default 000000 CMNET: APN, is gateway to connect internet, Each country is different,

5.2.Set IP and Port

Send the SMS to the tracker as following format:

	Command	Remark
Command format:	A+Password+,+012,+IP:Port	
For example:	A000000, 012,119.147.24.211:8886	012 : Command code 000000: password, default 000000 119.147.24.211 Platform server IP 8886: Platform server software Port

When the 900C connect to the monitor system, the power LED flash by 1 S. Then you can login in the tracking server to manage your car.